Cisco 801-805 — ISDN, Serial, and IDSL Routers

Product Overview

The Cisco 800 series router offers enhanced network security and reliability through the power of Cisco IOS technology tailored for small offices and telecommuters.

Cisco 800 series routers extend the power of Cisco IOS technology to small offices and corporate telecommuters. With Integrated Services Digital Network (ISDN), ISDN Digital Subscriber Line (IDSL), and serial models, the Cisco 800 series of routers addresses virtually all WAN services required by small offices and telecommuters. Cisco IOS technology offers enhanced security, reliability, and safe investment with low cost of ownership to enable customers to benefit from the Internet economy by increasing productivity, simplifying communication, and reducing costs. The Cisco 800 series enables customers to benefit from value-added services such as managed network services, virtual private networks (VPNs), point of sale (POS) applications, and secure Internet access.

Figure 20-44: Cisco 800 Series, front view

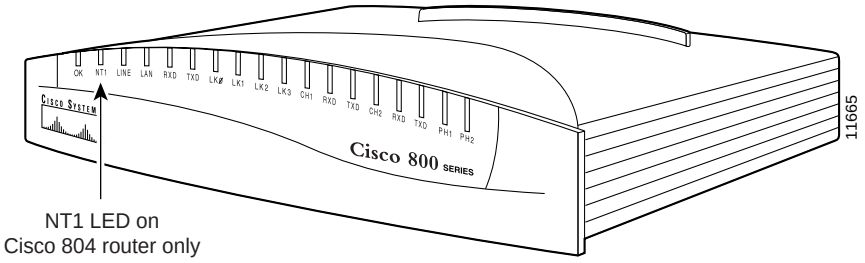
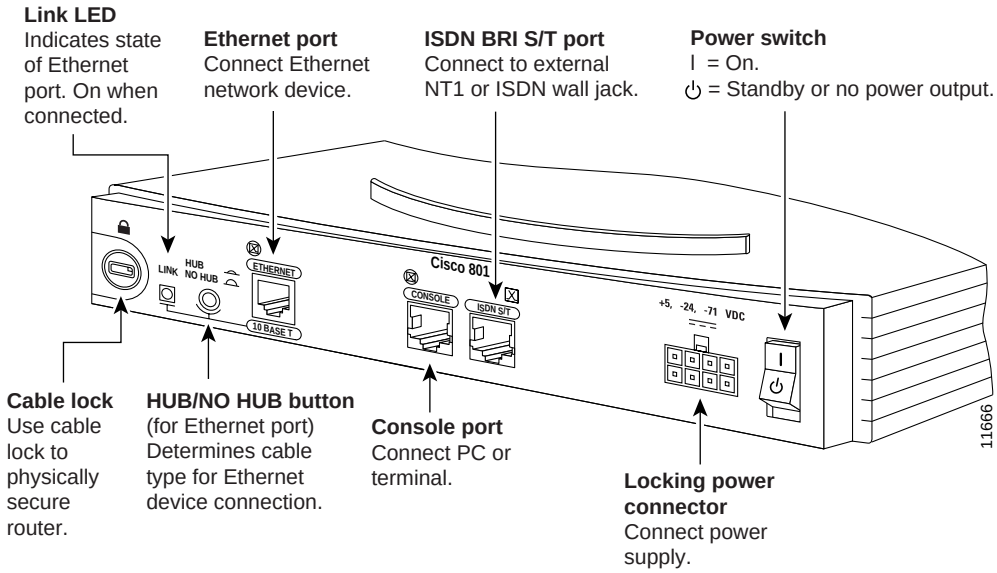


Figure 20-45: Cisco 800 Series, rear view



Key Features and Benefits

The Cisco 800 Series includes four ISDN routers, one serial router, and two IDLS router models and a choice of software feature sets. The Cisco 801 model provides an ISDN Basic Rate Interface (BRI) ST interface for use worldwide. The Cisco 802 adds the integrated NT1 network termination device for use in North America. The Cisco 803 and 804 models add a four-port Ethernet hub and two RJ-11 interfaces for telephone devices such as telephones, fax machines, and modems. The

Cisco 805 offers one serial port for synchronous serial connections or asynchronous dial up connections with an external modem. For IDSL connections, the Cisco 802 IDSL provides one IDSL port with one Ethernet port and the Cisco 804 IDSL adds an integrated 4-port Ethernet hub.

The Cisco 803 and 804 models also support supplementary telephone services such as call waiting, call-waiting cancel, call hold, call retrieve, three-way conferencing, and call transfer (if these services are supported by a users telephone company). For North American users, the Cisco 804 supports caller ID out the POTS port. Field upgradable Flash and DRAM memory in all Cisco 800 Series models protect equipment investments as technologies and networking requirements change.

- Support for WAN Technologies

  The Cisco Series 801 through 804 supports ISDN switched, leased line connections, Always on Dynamic ISDN (AODI), X.25 over ISDN D channel, Bandwidth Allocation Control Protocol (BACP), Multilink Point-to-Point Protocol (ML-PPP), Compression Control Protocol (CCP) compression (up to 4:1), and Bandwidth on Demand (BOD) with load balancing for links up to 128 kbps, for effective throughput up to 512 kbps.

  The Cisco Series 802 IDSL and 804 IDSL also supports IDSL which offers high-speed digital connections over an ISDN infrastructure and supports line rates up to 144 kbps. IDSL dramatically expands the reach of DSL connectivity for those customers who are outside the Service Provider's range for DSL or for those who are unable to qualify for DSL connections. IDSL supports VPN connections for telecommuting and branch offices as well as small businesses who need fast, reliable Internet access.

  The Cisco 805 supports both synchronous serial connections and asynchronous dial connections, synchronous connections include Frame Relay, leased line, X.25 up to speeds of up to 512 kbps. When using asynchronous dialup with an external modem, the Cisco 805 only connects to the Internet when required, and then immediately disconnects when the line is no longer being used, minimizing per-minute usage charges. Access control lists make sure that only important traffic initiates the Internet connection, further increasing the cost savings. The advanced routing protocols of the Cisco 805, including Snapshot and triggered RIP, ensure routing table information is exchanged efficiently; and STAC compression increases total throughput. Asynchronous serial speeds up to 115.2 kbps.

- Integrated CAPI Support for for European Markets

  The Cisco 801-1RCAPI and Cisco 803-1RCAPI series models are designed to take full advantage of popular European ISDN services. Integrated support for common application programming interface (CAPI) applications provides access to services such as faxing and online banking and a range of leading Internet service providers.

  Cisco 800 series Internet access devices are available with one-user or five-user RVS-COM Lite licenses, for access to all RVS-COM applications and CAPI applications. And since the CAPI 2.0 driver is built into the Cisco 800 series, there is no need to purchase separate software for your server.

  CAPI is an application programming interface standard used to access ISDN equipment connected to basic rate interfaces (BRIs) and primary rate interfaces (PRIs). Using a Cisco 800 series with RVS-COM Lite software provides a truly shared network environment and other benefits including: Soft fax (for analog and digital lines) for use with software such as AVMs Fritz!32, Symantec WinFax Pro, and RVS-COM Lite 1.6: Soft modem for e-mail and Web access to Internet service providers such as T-Online and CompuServe File and Euro-File Transfer Electronic banking and shopping with German T-Online Third-party CAPI-compliant applications. For further details on the CAPI standard, visit this URL: http://www.capi.org.

- Security

  To leverage the unprecedented opportunities offered by communications and commerce over the Internet, private information must remain secure. Cisco Secure Integrated Software provides many technologies to build a custom security solution. The elements of security services include perimeter security, identity, monitoring, privacy, firewalls, IPSec encryption, and VPNs.

  — Standard Security

    Perimeter security refers to the control of traffic entry and exit between network boundaries, such as between private networks, intranets, extranets, or the Internet. Cisco IOS perimeter security technologies provide a highly flexible, superior solution with features such as:

    Standard and extended ACLs

    Lock and Key (dynamic ACLs)

Router/route authentication, authorization, and accounting (such as Password Authentication Protocol [PAP]/ Challenge Handshake Authentication Protocol [CHAP])

Network Address Translation (NAT)

Token Card authentication with Cisco Secure authentication

NAT eliminates the need to re-address all hosts with existing private network addresses and hides internal addresses from public view. For businesses that want to allow selected access to the network, NAT can be configured to allow only certain types of data requests such as Web browsing, e-mail, or file transfers.

— Enhanced Security

Dynamic Firewall — Companies increasingly rely on internal networks and servers for accessing company data. To leverage the Internet as a key business tool, companies must connect their internal networks to the Internet while keeping sensitive internal data secure. Company data can be protected against unauthorized access with stateful firewalls. The integrated Cisco IOS Firewall Feature Set is a stateful firewall that provides:

Stateful (dynamic) ACLs (application/context based)

Java blocking

Denial of service attack detection and prevention

Real-time alerts and audit trails

Dynamic firewalls provide these vital enhanced security features. The term firewall is used by many vendors but not uniformly referred to as stateful firewalls. Firewalls that are not dynamic do not provide these enhanced security features.

- Encryption and Tunneling

  The Cisco 800 series routers provide IPSec encryption technology to enable small offices and telecommuters to deploy VPNs. IPSec encryption provides privacy, integrity, and authenticity for transmission of sensitive information over the Internet. The unique end-to-end Cisco offering allows customers to implement IPSec encryption transparently into the network without affecting individual PCs. The 800 series with IPSec encryption allows significant cost savings by using the Internet to create secure connections between small offices and teleworkers. As a component of the Cisco VPN solution, the Cisco 800 series supports:

  IPSec tunneling with data encryption standard (DES)

  Layer-2 Tunneling Protocol (L2TP)

  Generic Routing Encapsulation (GRE)

- Manageability

  The Cisco 800 Series supports management by a wide range of platforms and applications. Cisco ConfigMaker and Cisco Fast Step (Windows 95, 98, and NT 4.0), and CiscoView (UNIX) applications provide superior capabilities for configuration and security management, as well as performance and fault monitoring. The Cisco 800 Series supports centralized administration and management via Simple Network Management Protocol (SNMP), Telnet, or local management through the router's console port.

- X.25 over the D Channel

  The Cisco 800 Series supports International Telecommunications Union (ITU)-compliant X.25 service over the ISDN D channel. With this feature, the Cisco 800 Series cost-effectively supports transaction-oriented applications such as point-of-sale (POS) authorizations. The X.25 feature also allows users to take advantage of unused capacity on the D channel. The always on dynamic ISDN (AODI) technology in Cisco IOS software allows users to minimize call charges by initiating the lower-bandwidth D channel in always-on mode when a user makes an ISDN connection. AODI activates the more costly B channel only when a specific transmission requires more bandwidth. In addition, the Cisco 800 Series X.25 feature includes priority queuing to improve the responsiveness of traffic over this link.

- Dynamic Addressing

Workstations on the remote LAN can be assigned IP addresses dynamically by either the central network or the Cisco 800 Series router using the Internet-standard Dynamic Host Configuration Protocol (DHCP). The Cisco 800 Series implements both a DHCP relay agent and a DHCP server, giving network administrators a choice of mechanisms for assigning IP addresses to the routers and workstations.

- Easy to Set Up

  Each Cisco 800 Series router includes Cisco Fast Step, an easy-to-use Windows 95, 98, and NT 4.0-based software tool that simplifies the setup, monitoring, and troubleshooting of Cisco routers. The Cisco Fast Set setup application leads users through simple, step-by-step, wizards-based procedures to configure Cisco routers connected to an Internet service provider and remote corporate network. Cisco Fast Step includes the Cisco Fast Step monitor application which provides users with router LAN and WAN performance statistics, fault alarms, and troubleshooting assistance.

  The Cisco 800 Series routers also support configuration with the Cisco ConfigMaker application. A Windows 95, 98, and NT 4.0-based software tool, the Cisco ConfigMaker is designed to configure a small network of Cisco routers, switches, hubs, and other network devices from a single PC. Cisco ConfigMaker is designed for resellers and network administrators of small and medium-sized businesses who are proficient in LAN and WAN fundamentals and basic network design.

  The Cisco 800 IDSL models include DSL Connection Kits. The Cisco 800 DSL Connection Kit includes the Cisco Fast Step application with two configuration templates for simplified installation and set up.

  For additional setup ease, the Cisco 800 Series includes color-coded ports and cables to help users make proper connections. A Quick Product Reference Guide documentation provides easy-to-follow installation instructions.

- Virtual Private Network Services for Telecommuters

  A virtual private network (VPN) connects private networks and telecommuters by using a public network (such as the Internet), but provides services and capabilities that seem like those offered by dedicated private lines. For VPNs to provide the same benefits as dedicated lines, they must offer similar levels of security and quality to guarantee availability. As implemented in Cisco 800 Series routers, industry standard IPSec encryption offers a complete solution to telecommuters for secure remote access to VPNs, with mission-critical reliability and availability.

- All-in-One Solution

  The Cisco 803 and 804 models provide an all-in-one solution with a four-port Ethernet hub and two POTS interfaces, which enable users to meet their needs for data, telephone, and fax networking with one device. Now small offices and corporate telecommuters can reduce telephone line charges by combining their data, telephone, and fax communications on a single ISDN line. With one of these Cisco 800 series models, users can simultaneously use the Internet, receive a fax, or make a phone call while reducing the expense of multiple telephone lines.

Product Features

- Security

  NAT, creates a private network and an additional layer of network security

  PAP, CHAP, MS-CHAP, D channel dialback, caller ID, and ACLs, TACACS+ protect network resources from unauthorized access

  Route and router authentication, Cisco IOS Firewall feature set, IPSec encryption, and GRE tunneling

- Manageability

  Dynamic IP addresses for the Cisco 800 Series router and the remote workstations, to ease configuration and network management

  Automatic service profile identifier (SPID) and automatic detection of the ISDN switch using Cisco Fast Step

  Remote management and monitoring via SNMP or Telnet; local management via console port

  Remote debug capability using syslog

- Networking Efficiency and Cost Control

  Advice-of-charge mode and permanent ISDN connections

Dial-on-demand routing (DDR), dials the ISDN line only when needed, then automatically terminates the connection at the end of a user's session

Multilink PPP (MP) for standards-based B-channel aggregation (RFC 1717) and Bandwidth Allocation Control Protocol, for obtaining bandwidth on demand

ISDN lease line in Japan and Germany; Frame Relay encapsulation over ISDN leased line

Snapshot routing for IP and Internetwork Packet Exchange (IPX), prevents the ISDN line from being dialed only to exchange periodic routing updates

Industry-standard Stac data compression for throughput of up to 512 kbps

ACLs by time of day

X.25 D-channel packet data for maximum use of all available bandwidth

- Ease of Use

  Analog telephone interfaces for sharing the ISDN BRI line with devices such as standard telephones, fax machines, and modems (Cisco 803 and 804 only)

  Support for supplemental telephone features such as caller ID (North America), call transfer, call conference, call hold, call retrieve, and call waiting (if offered by a user's telephone company)

  Cisco Fast Step software for simplified installation from Windows 95, 98 or NT 4.0 operating systems

  Distinctive ringing (Cisco 803 and 804 only)

Specifications

Hardware

Table 20-121: Technical Specifications for Cisco 800 Series

Description		Cisco 801	Cisco 802	Cisco 803	Cisco 804	Cisco 805	Cisco 802 IDSL	Cisco 804 IDSL
Supported interface	WAN	ISDN	ISDN	ISDN	ISDN	Serial	IDSL	IDSL
Market		Worldwide	North America	Worldwide	North America	Worldwide	North America	North America
Processor	Model	MPC 850	MPC 850	MPC 850	MPC 850	MPC 850	MPC 850	MPC 850
	Speed	33 MHz	33 MHz	33 MHz	33 MHz	33 MHz	33 MHz	33 MHz
Memory	Default DRAM1	4 MB	4 MB	4 MB	4 MB	8 MB	4 MB	4 MB
	Max DRAM	12 MB	12 MB	12 MB	12 MB	16 MB	12 MB	12 MB
	Default FLASH2	8 MB	8 MB	8 MB	8 MB	4 MB	8 MB	8 MB
	Max FLASH	12 MB	12 MB	12 MB	12 MB	12 MB	12 MB	12 MB
NT-1			Yes		Yes	n/a	n/a	n/a
Telephone	Analog Ports	n/a	n/a	RJ-11	RJ-11	n/a	n/a	n/a
	REN	n/a	n/a	5	5	n/a	n/a	n/a
	Caller ID	n/a	n/a	North America Only	North America Only	n/a	n/a	n/a
Ethernet		10BaseT	10BaseT	4-port 10BaseT	4-port 10BaseT	10BaseT	10BaseT	4-port 10BaseT

Description		Cisco 801	Cisco 802	Cisco 803	Cisco 804	Cisco 805	Cisco 802 IDSL	Cisco 804 IDSL
Console	Connection	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45	RJ-45
	LEDs	11	12	17	18	8	12	16
	Locking slot	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Hub/No Hub Button	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Front Panel LEDs	System:		RDY; NT1, LINE		RDY; NT1, LINE			
	Ethernet							
	Channel 1	CH1, RXD, TXD						
	Channel 2	CH2, RXD, TXD						
	Telephone			Phone 1 and phone 2	Phone 1 and phone 2			
	Link			Four Ethernet link	Four Ethernet link			Four Ethernet link

Table 20-122: Power Requirements for Cisco 800 Series

Description	Cisco 801	Cisco 802	Cisco 803	Cisco 804	Cisco 805	Cisco 802 IDSL	Cisco 804 IDSL
Type	external/ universal	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801
US	110 VAC, 60 Hz	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801
UK and Singapore	240 VAC, 50 Hz	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801
Europe	220 VAC, 50 Hz	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801
Japan	100 VAC, 50/ 60 Hz	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801

Table 20-123: Physical and Environmental Specifications for Cisco 800 Series

Description	Cisco 801	Cisco 802	Cisco 803	Cisco 804	Cisco 805	Cisco 802 IDSL	Cisco 804 IDSL
Operating Temperature	32 to 104˚F (0 to 40˚C)	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801
Storage Temperature	-4 to 149˚F (-20 to 65˚C)	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801
Humidity, operating	10 to 85% noncondensing	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801
AC input current	0.2 to 0.4A	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801
Frequency	50 to 60 Hz	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801
Dimensions (H x W x D)	1.6 x 8.3 x 9.6 in. (4.1 x 21.1 x 24.4 cm)	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801	Same as Cisco 801

Description	Cisco 801	Cisco 802	Cisco 803	Cisco 804	Cisco 805	Cisco 802 IDSL	Cisco 804 IDSL
Weight	1.39 lbs (.63 kg)	1.42 lbs (.64 kg)	1.44 lbs (.65 kg)	1.45 lbs (.66 kg)	1.45 lbs (.66 kg)	1.42 lbs (.64 kg	1.45 lbs (.66 kg)

Table 20-124: Regulatory Approvals for Cisco 800 Series (all models except where noted)

Description	Cisco 801	Cisco 802	Cisco 803	Cisco 804	Cisco 805	Cisco 802 IDSL	Cisco 804 IDSL
CE	IEC 801-2, 801-3, 801-4, 801-5 CISPRB, CSA, EN 41003, EN 60950 FCC Part 15 Class B, Part 68 JATE, ST/PAB/ETR/384, TUV, UL VCCI 2						
ISDN BRI Support	Single and multipoint configurations Compatible with data or voice B channel						
ISDN Switch Type	Lucent 5ESS Nortel DMS-100 National ISDN-1 (NI-1) I-CTR3 (ETSI, NET/3) VN3/4/5 (France) 1TR6 (Germany) INS, HSD 64 and 128 (Japan) TPH (Australia)						
Analog Telephone (Cisco 803 and 804 only)	Telephones: DTMF only (touchtone only, no pulse) Group III facsimile: V.17, V.27 TER, V.29 Modems: V.22, V.22bis, V.32, V.32bis, V.34 Dial tone (400 Hz) provided outside of North America Ringer equivalency number (REN) = 4.7 2 B + 1D channels: 2 x 64 Kbps (pre-compressed) Interoperable Switched 56: 2 x 56 Kbps (pre-compressed)						

Software

For software specification information, access Cisco Connection Online at http://www.cisco.com

Ordering Information

Where to buy Cisco products

Visit http://www.cisco.com/public/ordering_info.shtml

Product and Part Numbers

Part Numbers for the Cisco 801-805

Part Description	Part Number
Cisco 800 Series Products	
ISDN/Ethernet Router	CISCO801
ISDN BRI/ETHERNET ROUTER	CISCO802
Cisco 802 IDSL Router with Internet DSL	CISCO802-IDSL
ISDN BRI/ETHERNET ROUTER, 4PORT HUB, 2 POTS	CISCO803
Cisco 803 with IP Plus Software	CISCO803-BT1
ISDN BRI/ETHERNET ROUTER, NT-1, 4-PORT HUB, 2 POTS	CISCO804
Cisco 804 IDSL Router with Internet DSL	CISCO804-IDSL
Cisco 805 Ethernet/Serial Router	CISCO805
ISDN Ethernet router with integrated Japan DSU	CISCO811
ISDN/Ethernet router with integrated 4 port hub & Japan DSU	CISCO813
Cisco 826 ADSL router (co-existing with ISDN local loops)	CISCO826
Cisco 827 ADSL router 1E, 1ADSL	CISCO827
Cisco 827-4V ADSL router 1E, 1ADSL, 4 Voice	CISCO827-4V
Cisco 800 Series Memory Options	
CISCO 801-804 4MB TO 8MB FLASH FACTORY UPGRADE	MEM800-4U8F
Cisco 800 8MB to 12MB Flash Factory Upgrade	MEM800-8U12F
CISCO series 8MB FLASH MINI-CARD	MEM800-8F=
CISCO 801-804 4MB TO 8MB DRAM FACTORY UPGRADE	MEM800-4U8D
CISCO 801-804 4MB TO 12MB DRAM FACTORY UPGRADE	MEM800-4U12D
CISCO 800 series 4MB DRAM DIMM	MEM800-4D=
CISCO 800 series 8MB DRAM DIMM	MEM800-8D=
Cisco 805 4-MB to 12-MB Flash factory upgrade	MEM805-4U12F
Cisco 805 4-MB to 8-MB Flash factory upgrade	MEM805-4U8F
Cisco 805 8-MB to 12-MB DRAM factory upgrade	MEM805-8U12D
Cisco 805 8-MB to 16-MB DRAM factory upgrade	MEM805-8U16D

Part Description	Part Number
4MB to 12MB Flash Upgrade	MEM81X-4U12F
8MB to 16MB DRAMUpgrade	MEM81X-8U16D
Cisco 820 DRAM upgrade 16Mbyte-20Mbyte	MEM820-16U20D
Cisco 820 DRAM upgrade 16Mbyte-24Mbyte	MEM820-16U24D
Cisco 820 DRAM upgrade 16Mbyte-32Mbyte	MEM820-16U32D
Cisco 820 DRAM 24Mbyte upgrade to 32 Mbytes	MEM820-24U32D
Cisco 800 Series Cables	
Cisco 800 spare cabling kit (ethernet, console, ISDN)	CAB-800=
RS-232 Cable, DCE Female to Smart Serial, 10 Feet	CAB-SS-232FC
RS-232 Cable, DCE Female to Smart Serial, 10 Feet	CAB-SS-232FC=
RS-232 Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-232MT
RS-232 Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-232MT=
RS-449 Cable, DCE Female to Smart Serial, 10 Feet	CAB-SS-449FC
RS-449 Cable, DCE Female to Smart Serial, 10 Feet	CAB-SS-449FC=
RS-449 Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-449MT
RS-449 Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-449MT=
RS-530A Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-530AMT
RS-530A Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-530AMT=
RS-530 Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-530MT
RS-530 Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-530MT=
V.35 Cable, DCE Female to Smart Serial, 10 Feet	CAB-SS-V35FC
V.35 Cable, DCE Female to Smart Serial, 10 Feet	CAB-SS-V35FC=
V.35 Cable, DTE Female to Smart Serial, 10 Feet	CAB-SS-V35FT
V.35 Cable, DTE Female to Smart Serial, 10 Feet	CAB-SS-V35FT=
V.35 Cable, DCE Male to Smart Serial, 10 Feet	CAB-SS-V35MC
V.35 Cable, DCE Male to Smart Serial, 10 Feet	CAB-SS-V35MC=
V.35 Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-V35MT
V.35 Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-V35MT=

Part Description	Part Number
X.21 Cable, DCE Female to Smart Serial, 10 Feet	CAB-SS-X21FC
X.21 Cable, DCE Female to Smart Serial, 10 Feet	CAB-SS-X21FC=
X.21 Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-X21MT
X.21 Cable, DTE Male to Smart Serial, 10 Feet	CAB-SS-X21MT=
Cisco 800 Series Spare and Accessories	
Cisco 801-804 Universal, External AC Power Supply	PWR-800-WW1
Cisco 800 Universal, External AC Power Supply Spare	PWR-800-WW1=
Cisco 805 universal, external AC power supply, spare	PWR-805-WW1=
Cisco 820 Series Universal, External AC Power Supply	PWR-820-WW1
Cisco 800 Series IOS Software Options	
Cisco 800 Series IOS IP/IPX/FW PLUS IPSEC 56	S800BHL-12104
Cisco 800 Series IOS IP/IPX/FW PLUS IPSEC 56	S800BHL-12105
Cisco 800 Series IOS IP/IPX/FW PLUS IPSEC 56	S800BHL-12105=
Cisco 800 Series IOS IP/IPX PLUS	S800BP-12105
Cisco 800 Series IOS IP/IPX PLUS	S800BP-12105=
Cisco 800 Series IOS IP	S800C-12105
Cisco 800 Series IOS IP	S800C-12105=
Cisco 800 Series IOS IP/FW	S800CH-12105
Cisco 800 Series IOS IP/FW	S800CH-12105=
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S800CHL-12105
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S800CHL-12105=
Cisco 800 Series IOS IP/FW PLUS	S800CHP-12105
Cisco 800 Series IOS IP/FW PLUS	S800CHP-12105=
Cisco 800 Series IOS IP PLUS	S800CP-12105
Cisco 800 Series IOS IP PLUS	S800CP-12105=
Cisco 800 Series IOS IP/IPX/FW PLUS IPSEC 56	S800BHL-12104=
Cisco 800 Series IOS IP/IPX PLUS	S800BP-12104
Cisco 800 Series IOS IP/IPX PLUS	S800BP-12104=
Cisco 800 Series IOS IP	S800C-12104
Cisco 800 Series IOS IP	S800C-12104=
Cisco 800 Series IOS IP/FW	S800CH-12104
Cisco 800 Series IOS IP/FW	S800CH-12104=

Part Description	Part Number
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S800CHL-12104
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S800CHL-12104=
Cisco 800 Series IOS IP/FW PLUS	S800CHP-12104
Cisco 800 Series IOS IP/FW PLUS	S800CHP-12104=
Cisco 800 Series IOS IP PLUS	S800CP-12104
Cisco 800 Series IOS IP PLUS	S800CP-12104=
Cisco 800 Series IOS IP/IPX/FW PLUS IPSEC 3DES	S8BHK2-12103XG=
Cisco 800 Series IOS IP/IPX/FW PLUS IPSEC 56	S8BHL-12103XG
Cisco 800 Series IOS IP/IPX/FW PLUS IPSEC 56	S8BHL-12103XG=
Cisco 800 Series IOS IP/IPX PLUS	S8BP-12103XG
Cisco 800 Series IOS IP/IPX PLUS	S8BP-12103XG=
Cisco 800 Series IOS IP	S8C-12103XG
Cisco 800 Series IOS IP	S8C-12103XG=
Cisco 800 Series IOS IP/FW	S8CH-12103XG
Cisco 800 Series IOS IP/FW	S8CH-12103XG=
Cisco 800 Series IOS IP/FW PLUS IPSEC 3DES	S8CHK2-12103XG=
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12103XG
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12103XG=
Cisco 800 Series IOS IP PLUS	S8CP-12103XG
Cisco 800 Series IOS IP PLUS	S8CP-12103XG=
Cisco 800 Series IOS IP/IPX FW PLUS IPSEC 56	S8BHL-12102T
Cisco 800 Series IOS IP/IPX FW PLUS IPSEC 56	S8BHL-12102T=
Cisco 800 Series IOS IP/IPX PLUS	S8BP-12102T
Cisco 800 Series IOS IP/IPX PLUS	S8BP-12102T=
Cisco 800 Series IOS IP	S8C-12102T
Cisco 800 Series IOS IP	S8C-12102T=
Cisco 800 Series IOS IP/FW	S8CH-12102T
Cisco 800 Series IOS IP/FW	S8CH-12102T=
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12102T
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12102T=
Cisco 800 Series IOS IP/FW PLUS	S8CHP-12102T
Cisco 800 Series IOS IP/FW PLUS	S8CHP-12102T=
Cisco 800 Series IOS IP PLUS	S8CP-12102T
Cisco 800 Series IOS IP PLUS	S8CP-12102T=

Part Description	Part Number
Cisco 800 Series IOS IP/IPX FW PLUS IPSEC 56	I8BHL-12102XF
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	I8CHL-12102XF
Cisco 800 Series IOS IP/IPX FW PLUS IPSEC 56	S8BHL-12102XF=
Cisco 800 Series IOS IP/IPX PLUS	S8BP-12102XF=
Cisco 800 Series IOS IP	S8C-12102XF
Cisco 800 Series IOS IP	S8C-12102XF=
Cisco 800 Series IOS IP/FW	S8CH-12102XF=
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12102XF=
Cisco 800 Series IOS IP PLUS	S8CP-12102XF=
Cisco 800 Series IOS IP/IPX FW PLUS IPSEC 56	S800BHL-12102=
Cisco 800 Series IOS IP/IPX PLUS	S800BP-12102=
Cisco 800 Series IOS IP	S800C-12102=
Cisco 800 Series IOS IP/FW	S800CH-12102=
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S800CHL-12102=
Cisco 800 Series IOS IP/FW PLUS	S800CHP-12102=
Cisco 800 Series IOS IP PLUS	S800CP-12102=
Cisco 800 Series IOS IP/IPX/FW PLUS IPSEC 56	S800BHL-12103
Cisco 800 Series IOS IP/IPX/FW PLUS IPSEC 56	S800BHL-12103=
Cisco 800 Series IOS IP/IPX PLUS	S800BP-12103
Cisco 800 Series IOS IP/IPX PLUS	S800BP-12103=
Cisco 800 Series IOS IP	S800C-12103
Cisco 800 Series IOS IP	S800C-12103=
Cisco 800 Series IOS IP/FW	S800CH-12103
Cisco 800 Series IOS IP/FW	S800CH-12103=
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S800CHL-12103
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S800CHL-12103=
Cisco 800 Series IOS IP/FW PLUS	S800CHP-12103
Cisco 800 Series IOS IP/FW PLUS	S800CHP-12103=
Cisco 800 Series IOS IP PLUS	S800CP-12103
Cisco 800 Series IOS IP PLUS	S800CP-12103=
Cisco 800 Series IOS IP/IPX/FW PLUS IPSEC 56	S8BHL-12103T
Cisco 800 Series IOS IP/IPX/FW PLUS IPSEC 56	S8BHL-12103T=
Cisco 800 Series IOS IP/IPX PLUS	S8BP-12103T
Cisco 800 Series IOS IP/IPX PLUS	S8BP-12103T=
Cisco 800 Series IOS IP	S8C-12103T

Part Description	Part Number
Cisco 800 Series IOS IP	S8C-12103T=
Cisco 800 Series IOS IP/FW	S8CH-12103T
Cisco 800 Series IOS IP/FW	S8CH-12103T=
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12103T
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12103T=
Cisco 800 Series IOS IP/FW PLUS	S8CHP-12103T
Cisco 800 Series IOS IP/FW PLUS	S8CHP-12103T=
Cisco 800 Series IOS IP PLUS	S8CP-12103T
Cisco 800 Series IOS IP PLUS	S8CP-12103T=
Cisco 800 Series IOS IP/IPX FW PLUS IPSEC 56	S8BHL-12.0.5T
Cisco 800 Series IOS IP/FW	S8CH-12.0.5T
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12.0.5T
Cisco 800 Series IOS IP/FW PLUS	S8CHP-12.0.5T
Cisco 800 Series IOS IP PLUS	S8CP-12.0.5T
Cisco 800 Series IOS IP/IPX FW PLUS IPSEC 56	S8BHL-12.0.7T
Cisco 800 Series IOS IP/IPX FW PLUS IPSEC 56	S8BHL-12.0.7T=
Cisco 800 Series IOS IP	S8C-12.0.7T
Cisco 800 Series IOS IP	S8C-12.0.7T=
Cisco 800 Series IOS IP/FW	S8CH-12.0.7T
Cisco 800 Series IOS IP/FW	S8CH-12.0.7T=
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12.0.7T
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12.0.7T=
Cisco 800 Series IOS IP/FW PLUS	S8CHP-12.0.7T
Cisco 800 Series IOS IP/FW PLUS	S8CHP-12.0.7T=
Cisco 800 Series IOS IP PLUS	S8CP-12.0.7T
Cisco 800 Series IOS IP PLUS	S8CP-12.0.7T=
Cisco 800 Series IOS IP/IPX FW PLUS IPSEC 56	S8BHL-12.0.7XV
Cisco 800 Series IOS IP/IPX FW PLUS IPSEC 56	S8BHL-12.0.7XV=
Cisco 800 Series IOS IP/FW	S8CH-12.0.7XV
Cisco 800 Series IOS IP/FW	S8CH-12.0.7XV=
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12.0.7XV
Cisco 800 Series IOS IP/FW PLUS IPSEC 56	S8CHL-12.0.7XV=
Cisco 800 Series IOS IP/FW PLUS	S8CHP-12.0.7XV
Cisco 800 Series IOS IP/FW PLUS	S8CHP-12.0.7XV=
Cisco 800 Series IOS IP PLUS	S8CP-12.0.7XV

Part Description	Part Number
Cisco 800 Series IOS IP PLUS	S8CP-12.0.7XV=
Cisco 827 Series IOS IP/IPX VOICE PLUS	S8BP-12101XB
Cisco 827 Series IOS IP	S8C-12101XB
Cisco 827 Series IOS IP VOICE PLUS	S8CVP-12101XB
Cisco 827 Series IOS IP/IPX VOICE PLUS	S8BP-12101XB=
Cisco 827 Series IOS IP	S8C-12101XB=
Cisco 827 Series IOS IP VOICE PLUS	S8CVP-12101XB=
Cisco 805 Series IOS Software Options	
Cisco 805 Series IOS IP/IPX/FW PLUS IPSEC 56	S805BHL-12105
Cisco 805 Series IOS IP/IPX/FW PLUS IPSEC 56	S805BHL-12105=
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12105
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12105=
Cisco 805 Series IOS IP	S805C-12105
Cisco 805 Series IOS IP	S805C-12105=
Cisco 805 Series IOS IP/FW	S805CH-12105
Cisco 805 Series IOS IP/FW	S805CH-12105=
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12105
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12105=
Cisco 805 Series IOS IP/FW PLUS	S805CHP-12105=
Cisco 805 Series IOS IP PLUS	S805CP-12105
Cisco 805 Series IOS IP PLUS	S805CP-12105=
Cisco 805 Series IOS IP/IPX/FW PLUS IPSEC 56	S805BHL-12104=
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12104
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12104=
Cisco 805 Series IOS IP	S805C-12104
Cisco 805 Series IOS IP	S805C-12104=
Cisco 805 Series IOS IP/FW	S805CH-12104
Cisco 805 Series IOS IP/FW	S805CH-12104=
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12104=
Cisco 805 Series IOS IP/FW PLUS	S805CHP-12104=
Cisco 805 Series IOS IP PLUS	S805CP-12104
Cisco 805 Series IOS IP PLUS	S805CP-12104=
Cisco 805 Series IOS IP/IPX/FW PLUS IPSEC 3DES	S805BHK2-12103XG
Cisco 805 Series IOS IP/IPX/FW PLUS IPSEC 3DES	S805BHK2-12103XG=
Cisco 805 Series IOS IP/IPX/FW PLUS IPSEC 56	S805BHL-12103XG=

Part Description	Part Number
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12103XG
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12103XG=
Cisco 805 Series IOS IP	S805C-12103XG
Cisco 805 Series IOS IP	S805C-12103XG=
Cisco 805 Series IOS IP/FW	S805CH-12103XG
Cisco 805 Series IOS IP/FW	S805CH-12103XG=
Cisco 805 Series IOS IP/FW PLUS IPSEC 3DES	S805CHK2-12103XG=
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12103XG
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12103XG=
Cisco 805 Series IOS IP PLUS	S805CP-12103XG
Cisco 805 Series IOS IP PLUS	S805CP-12103XG=
Cisco 805 Series IOS IP/IPX FW PLUS IPSEC 56	S805BHL-12102T=
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12102T
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12102T=
Cisco 805 Series IOS IP	S805C-12102T
Cisco 805 Series IOS IP	S805C-12102T=
Cisco 805 Series IOS IP/FW	S805CH-12102T
Cisco 805 Series IOS IP/FW	S805CH-12102T=
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12102T=
Cisco 805 Series IOS IP/FW PLUS	S805CHP-12102T=
Cisco 805 Series IOS IP PLUS	S805CP-12102T
Cisco 805 Series IOS IP PLUS	S805CP-12102T=
Cisco 805 Series IOS IP/IPX FW PLUS IPSEC 56	S805BHL-12102=
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12102=
Cisco 805 Series IOS IP	S805C-12102=
Cisco 805 Series IOS IP/FW	S805CH-12102=
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12102=
Cisco 805 Series IOS IP/FW PLUS	S805CHP-12102=
Cisco 805 Series IOS IP PLUS	S805CP-12102=
Cisco 805 IOS IP/IPX Plus	S805BP-12.0.4XM
Cisco 805 IOS IP/IPX Plus	S805BP-12.0.4XM=
Cisco 805 IOS IP	S805C-12.0.4XM
Cisco 805 IOS IP	S805C-12.0.4XM=
Cisco 805 IOS IP Plus	S805CP-12.0.4XM
Cisco 805 IOS IP Plus	S805CP-12.0.4XM=
Cisco 805 IOS IP/FW	S805CH-12.0.4XM
Cisco 805 IOS IP/FW	S805CH-12.0.4XM=

Part Description	Part Number
Cisco 805 Series IOS IP/IPX FW PLUS IPSEC 56	S805BHL-12.0.7T=
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12.0.7T
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12.0.7T=
Cisco 805 Series IOS IOS IP	S805C-12.0.7T
Cisco 805 Series IOS IOS IP	S805C-12.0.7T=
Cisco 805 Series IOS IOS IP/FW	S805CH-12.0.7T
Cisco 805 Series IOS IOS IP/FW	S805CH-12.0.7T=
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12.0.7T
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12.0.7T=
Cisco 805 Series IOS IP/FW PLUS	S805CHP-12.0.7T
Cisco 805 Series IOS IP/FW PLUS	S805CHP-12.0.7T=
Cisco 805 Series IOS IOS IP PLUS	S805CP-12.0.7T
Cisco 805 Series IOS IOS IP PLUS	S805CP-12.0.7T=
Cisco 805 Series IOS IP/IPX FW PLUS IPSEC 56	I805BHL-12.0.7T
Cisco 805 Series IOS IOS IP	I805C-12.0.7T
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	I805CHL-12.0.7T
Cisco 805 Series IOS IP/IPX FW PLUS IPSEC 56	S805BHL-12101T
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12101T
Cisco 805 Series IOS IP/FW	S805CH-12101T
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12101T
Cisco 805 Series IOS IP/FW PLUS	S805CHP-12101T
Cisco 805 Series IOS IP/IPX FW PLUS IPSEC 56	S805BHL-12101T=
Cisco 805 Series IOS IP	S805C-12101T=
Cisco 805 Series IOS IP/FW	S805CH-12101T=
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12101T=
Cisco 805 Series IOS IP/FW PLUS	S805CHP-12101T=
Cisco 805 Series IOS IP PLUS	S805CP-12101T=
Cisco 805 Series IOS IP/IPX/FW PLUS IPSEC 56	S805BHL-12103=
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12103
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12103=
Cisco 805 Series IOS IP	S805C-12103
Cisco 805 Series IOS IP	S805C-12103=
Cisco 805 Series IOS IP/FW	S805CH-12103
Cisco 805 Series IOS IP/FW	S805CH-12103=
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12103=

Part Description	Part Number
Cisco 805 Series IOS IP/FW PLUS	S805CHP-12103=
Cisco 805 Series IOS IP PLUS	S805CP-12103
Cisco 805 Series IOS IP PLUS	S805CP-12103=
Cisco 805 Series IOS IP/IPX/FW PLUS IPSEC 56	S805BHL-12103T=
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12103T
Cisco 805 Series IOS IP/IPX PLUS	S805BP-12103T=
Cisco 805 Series IOS IP	S805C-12103T
Cisco 805 Series IOS IP	S805C-12103T=
Cisco 805 Series IOS IP/FW	S805CH-12103T
Cisco 805 Series IOS IP/FW	S805CH-12103T=
Cisco 805 Series IOS IP/FW PLUS IPSEC 56	S805CHL-12103T=
Cisco 805 Series IOS IP/FW PLUS	S805CHP-12103T=
Cisco 805 Series IOS IP PLUS	S805CP-12103T
Cisco 805 Series IOS IP PLUS	S805CP-12103T=
Cisco 820 Series IOS Software Options	
Cisco 820 Ser IOS IP/IPX/FW PLUS IPSEC 3DES	S820BHK2-12103XG
Cisco 820 Ser IOS IP/IPX/FW PLUS IPSEC 3DES	S820BHK2-12103XG=
Cisco 820 Ser IOS IP/IPX/VOICE PLUS	S820BVP-12103XG
Cisco 820 Ser IOS IP/IPX/VOICE PLUS	S820BVP-12103XG=
Cisco 820 Ser IOS IP	S820C-12103XG
Cisco 820 Ser IOS IP	S820C-12103XG=
Cisco 820 Ser IOS IP/FW PLUS IPSEC 3DES	S820CHK2-12103XG
Cisco 820 Ser IOS IP/FW PLUS IPSEC 3DES	S820CHK2-12103XG=
Cisco 820 Ser IOS IP/FW PLUS IPSEC 56	S820CHL-12103XG
Cisco 820 Ser IOS IP/FW PLUS IPSEC 56	S820CHL-12103XG=
Cisco 820 Ser IOS IP/FW/VOICE PLUS IPSEC 3DES	S820CHVK2-12103XG
Cisco 820 Ser IOS IP/FW/VOICE PLUS IPSEC 3DES	S820CHVK2-12103XG=
Cisco 820 Ser IOS IP/FW/VOICE PLUS IPSEC 56	S820CHVL-12103XG
Cisco 820 Ser IOS IP/FW/VOICE PLUS IPSEC 56	S820CHVL-12103XG=
Cisco 820 Ser IOS IP/VOICE	S820CV-12103XG
Cisco 820 Ser IOS IP/VOICE	S820CV-12103XG=
Cisco 800 Series Software CD Feature Packs	
Cisco 801-805 IP Feature Pack	CD08-C-12.0.5=
Cisco 801-805 IP/Firewall Feature Pack	CD08-CH-12.0.5=

Part Description	Part Number
Cisco 801-805 IP/IPX Firewall Plus IPSEC 56 Feature Pack	CD08-BHL-12.0.7=
Cisco 801-805 IP/Firewall Plus Feature Pack	CD08-CHP-12.0.7=
Cisco 801-805 IP Plus Feature Pack	CD08-CP-12.0.7=
Cisco 800 IP IPX FW Plus IPSec Feature Pack	CD08-BHL-12.0.7XV=
Cisco 801-805 IP/Firewall Plus IPSEC 56 Feature Pack	CD08-CHL-12.0.7=
Cisco 800 Series CAPI Software License	
CAPI Software one-user license	CD800-1CAPI=
CAPI 5 USER CD	CD800-5CAPI=

Documentation

For part numbers for product specific documentation, visit

http://www.cisco.com/univercd/cc/td/doc/pcat/swdo__d1.htm